



Program of Study
Career Field: Industrial, Manufacturing, and Engineering Systems
Career Cluster: Architecture and Construction
Career Pathway: Design/Pre-Construction



Southeast Community College

DEGREE:
 Computer Aided Design Drafting
<http://www.southeast.edu/programs/DRAF/default.aspx>

	GRADE	ENGLISH	MATH	SCIENCE	SOCIAL STUDIES	GENERAL ELECTIVES		PATHWAY ELECTIVE COURSES		EXTENDED LEARNING SCHOOL/COMMUNITY ACTIVITIES	
HIGH SCHOOL	9	English/Language Arts I	Algebra I	Physical Science	Geography	World Languages & Cultures Physical Education Health Education Information Technology Applications I Entrepreneurship CAD (Computer Aided Drafting) Construction Principles of Construction		Intro to the Built Environment <i>Plus two from the following:</i> Language of Architecture & Construction Principles of Design & Pre-construction Applications in Design & Pre-construction Intro to Architecture Technology Housing & Home Furnishings		<i>School Activities:</i> SkillsUSA, OPPD/NPPD Power Drive, FFA, Math Club, MATHCOUNTS <i>Community Activities:</i> Do home repair projects, Learn about history of the buildings in your community, Work with a contractor, Part-time employment available within this career cluster, Internships available within this career cluster	
	10	English/Language Arts II	Geometry	Biology	World History						
	11	English/Language Arts III	Algebra II	Chemistry	American History						
	12	English/Language Arts IV	Intro to Statistics Discrete Math Pre-Calc	Physics	American Government or Economcis						
SOUTHEAST COMMUNITY COLLEGE		COMMUNICATIONS	MATH/SCIENCE	SOCIAL SCI/HUMANITIES	COMPUTER TECHNOLOGY	FOCUS COURSES					
	13 and 14	Public Speaking	Applied Algebra & Trig	Microeconomics	Microsoft Applications	Design Drafting Concepts	Architectural Concepts	3-D Solid Modeling	3-D Visualization	Solid Works	Strength of Materials
		Composition	Descriptive Physics		Microsoft Word & PowerPoint	Virtual Building Design w/Revit	Advanced Virtual Building Design w/Revit	Commercial Construction Materials	Architectural Design	Commercial Construction Process	Industrial Plastics
					Microsoft Excel	Structural Steel Design with SDS/2	Professional Practice Architectural	Geometric Dimensioning & Tolerancing	Engineering Processes	Plastics Part Design	Flat Pattern Layout
						Design Concepts	Consumer Product Design	Jigs & Fixture-Design	Electronic Drafting	Career Development	Business Law I